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File: PSS-69TCT

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|-------|----------------|-------|
| 69 kV | TCT Terminator | 69TCT |
|-------|----------------|-------|



## 69TCT TCT Terminator

### Applications:

The 69TCT Terminator provides a Class 1 termination for cable systems rated through 69kV class. It conforms to IEC-840 AND IEEE-48. This terminator is designed for solid dielectric cables with insulation diameters up to 86.4mm (3.400") and it accommodates conductor sizes from 90mm<sup>2</sup> (4/0) to 1700mm<sup>2</sup> (3500 kcmil). Various aerial lugs are available for the conductor connection. The durable elastomer construction eliminates glaze damage failures associated with porcelain. A state-of-the-art shed design ensures a non-continuous drip path and the non-tracking polymer requires no surface oil or grease.

The 69TCT Terminator is lightweight 14kg (30.1 lb.) and easy to handle. It can be assembled horizontally on the ground and then raised to the installation position without a crane. The installation can be accomplished in 45 minutes (using the Elastimold TCJ-ATK-U Universal Assembly Tool) after the cable preparation is completed. The 69TCT can utilize standard support systems.

### Features:

- Molded EPDM elastomer housing is durable under severe environmental conditions. It doesn't require a surface oil /grease to maintain non-tracking properties.
- Shed design employs unequal diameters to interrupt the drip path from shed to shed.
- Housing is designed to slide over cable insulation to provide required creep path and water seal.
- Molded stress relief is designed to assure proper stress relief for the terminated cable.

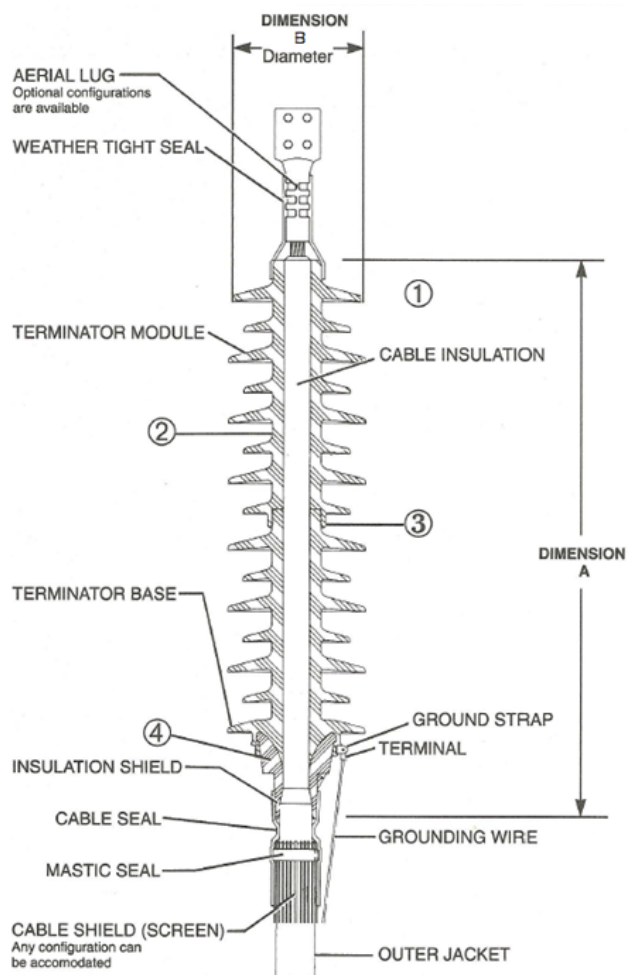
| Electrical Data                                            | 69TCT                          |
|------------------------------------------------------------|--------------------------------|
| Nominal Voltage                                            | U <sub>0</sub> /U<br>40kV/59kV |
| Maximum Working Voltage                                    | 72.5 kV                        |
| Partial Discharge                                          | <3pC @ 60kV                    |
| BIL (@1.2x50 microsecond wave)<br>10 positive, 10 negative | 350 kV                         |
| AC Withstand 60Hz 1 Minute Dry                             | 175 kV                         |

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## Dimension A

940 mm. (37") minimum. May be increased as required for severe service.

## Dimension B

| Size | Min. Ins. Dia.   | Max. Ins. Dia.   |
|------|------------------|------------------|
| 3    | 53.34 mm (2.10") | 62.23 mm (2.45") |
| 2    | 47.00 mm (1.85") | 54.61 mm (2.15") |
| 1    | 41.91 mm (1.65") | 48.26 mm (1.90") |
| 0    | 36.93 mm (1.45") | 43.18 mm (1.70") |

### Each kit contains the following:

|   |                          |         |
|---|--------------------------|---------|
| 1 | TCT Terminator           | 69TCT   |
| 1 | Instruction Sheet        | IS-0873 |
| 1 | Conductive Paint Package | 138-13  |
| 2 | Mastic Tape              | 138-189 |

### Ordering Instructions:

To order the 69TCT Terminator, please provide cable cut sheet information and called Thomas & Betts at 901-252-5000.